

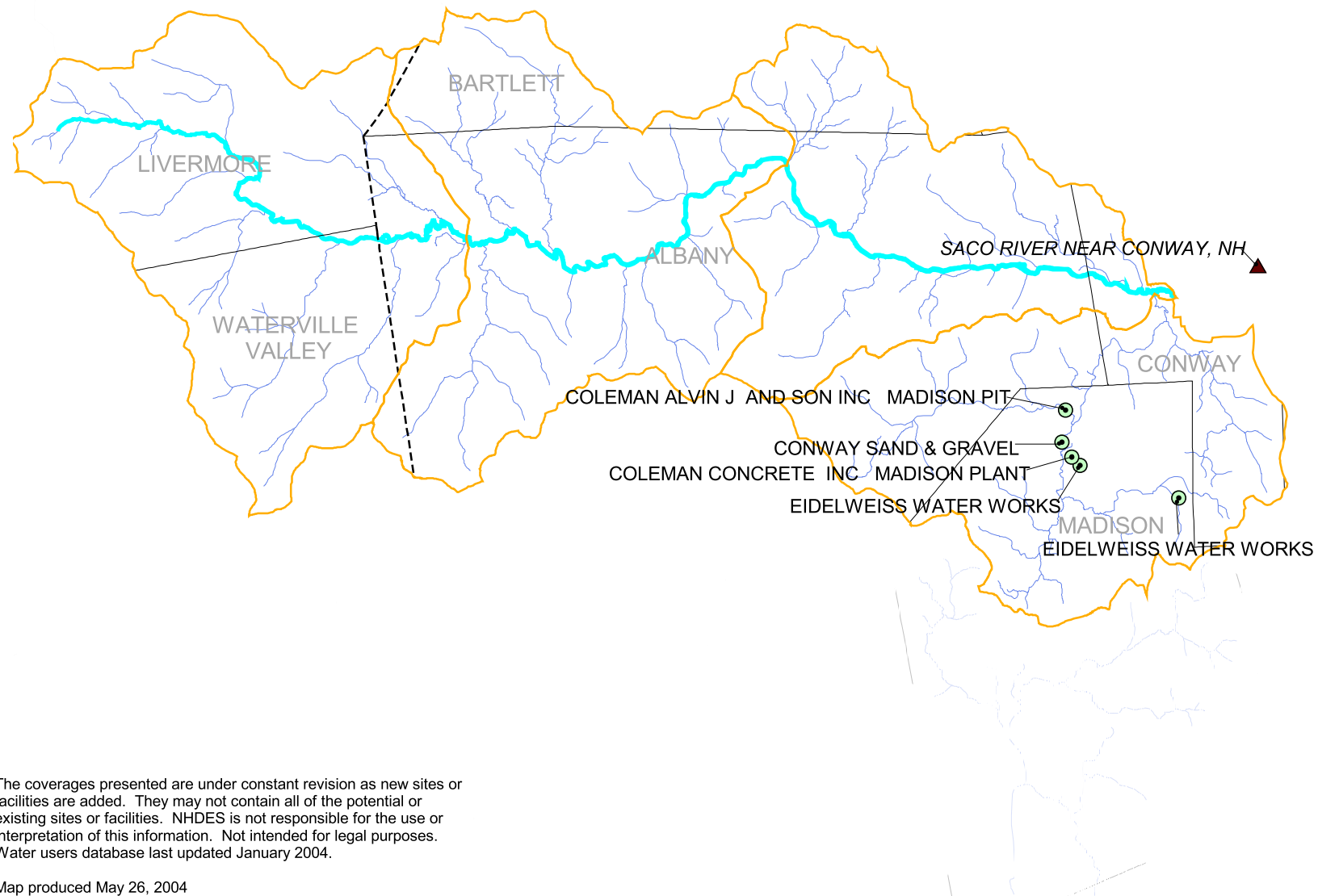
## Swift Annual Water Use versus Stream Flow – Calendar Year 2003

The Swift Water Management Planning Area covers 114 square miles. The Swift River is a tributary of the Saco River. There is a streamflow gage downstream in Conway (**USGS 01064500 Saco River near Conway, NH**) measuring the 385 square miles of watershed making up the Saco and Swift Rivers. For this report the streamflow was transposed areal from the gage to the impact point on the Designated River. There are four registered sources and no registered, measured returns in the Water Management Planning Area.

There were no months when the General Standard was exceeded.

The Swift River Water Management Planning Area has three Affected Water Users all of which are in the Pequawket Brook watershed, which impacts only the lowest reaches of the Designated portion of the Swift River. Only one of the AWUs, Alvin J. Coleman and Son Inc. gravel pit operation, reported water use in 2003. Water use by the gravel facility occurred only from April through December in 2003. A second gravel operation, Pike's Conway Sand and Gravel, has been inactive recently. Eidelweiss Water Works has not reported recently, but is still active. Water use for Eidelweiss has been year round. Water use data from 2001 for Eidelweiss was substituted for the 2003 data.

# Swift River Affected Water User Facilities: Source and Discharge Locations



## Legend

### Affected Water Users

- Discharge
- ⊙ Source

### Stream Gages

- ▲ Active
- △ Inactive

— Designated Reach

— Hydrology

- - - County boundary

— Town boundary

— WMPA

The coverages presented are under constant revision as new sites or facilities are added. They may not contain all of the potential or existing sites or facilities. NHDES is not responsible for the use or interpretation of this information. Not intended for legal purposes. Water users database last updated January 2004.

Map produced May 26, 2004

h:\water quality\instream flow\gisprojects\wmpa\Saco\_waterquality.apr

1 0 1 2 Miles

## 2003 Swift Water Use in CFS

[illegible]

2003 Swift Aggregate Water Use in CFS

WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
beginning of DR	headwaters		0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEQUAWKET BROOK			114.1	0.11	0.11	0.12	0.18	0.14	0.13	0.42	0.38	0.42	0.38	0.32	0.10
end of DR	Confluence of Swift and Saco		114.2	0.11	0.11	0.12	0.18	0.14	0.13	0.42	0.38	0.42	0.38	0.32	0.10

## USGS 01064500 Saco River near Conway, NH

DA(mi^2) 385

7Q10 (cfs) 96.7

	Mean of daily streamflows (2003) in cfs	Mean of monthly streamflows (POR) in ft3/s	Median of monthly means (cfs)	Calculated 2003 monthly mean streamflow	General Standard in cfsm
Jan-03	569	569	442	1.48	0.04
Feb-03	507	508	402	1.32	0.04
Mar-03	1011	968	697	2.63	0.04
Apr-03	1801	2630	2590	4.68	0.16
May-03	1463	2221	2153	3.80	0.04
Jun-03	668	847	713	1.73	0.04
Jul-03	241	438	381	0.63	0.02
Aug-03	1060	352	255	2.75	0.04
Sep-03	701	388	285	1.82	0.04
Oct-03	1953	639	439	5.07	0.16
Nov-03	2035	948	823	5.29	0.16
Dec-03	2353	760	633	6.11	0.16

2003 daily data availability

71.5% = number of days with data in 2003 / 365 days

Using POR average streamflow for this month

Using POR average daily streamflows for part of this month

\* from USGS WRI 02-4298

2003 Swift Estimated Monthly Stream Flow at Each Impact Point in CFS

WU_NAME	FACILITY	WUSD_ID	DA on DR (SQ MILE)	Calculated 2003 monthly mean streamflow in CFSM											
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
beginning of DR	headwaters		0.48	0.71	0.63	1.25	2.23	1.81	0.83	0.30	1.31	0.87	2.42	2.52	2.92
PEQUAWKET BROOK			114.1	168.77	150.31	299.74	533.90	433.52	197.84	71.35	314.16	207.79	578.87	603.13	697.45
end of DR	Confluence of Swift and Saco		114.2	168.88	150.41	299.94	534.25	433.80	197.97	71.40	314.37	207.92	579.25	603.52	697.90

2003 Saco Estimated Monthly General Standard at Each Impact Point in CFS

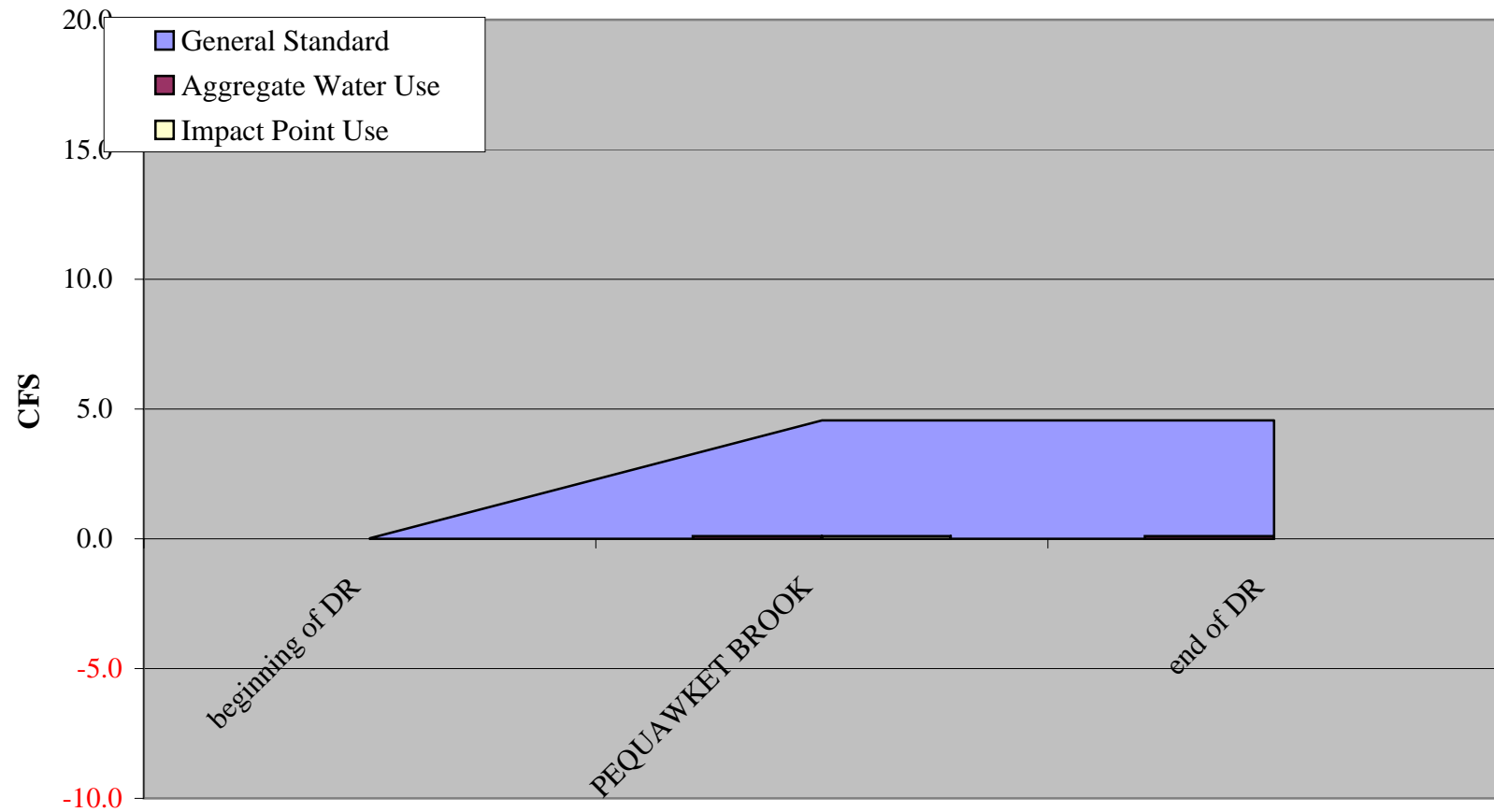
WU_NAME	FACILITY	WUSD_ID	General Standard in cfsm												
			DA on DR (SQ MILE)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
beginning of DR	headwaters		0.48	0.02	0.02	0.02	0.08	0.02	0.02	0.01	0.02	0.02	0.08	0.08	0.08
PEQUAWKET BROOK			114.1	4.56	4.56	4.56	18.26	4.56	4.56	2.28	4.56	4.56	18.26	18.26	18.26
end of DR	Confluence of Swift and Saco		114.2	4.57	4.57	4.57	18.27	4.57	4.57	2.28	4.57	4.57	18.27	18.27	18.27

2003 Saco Estimated Monthly Margin of the Aggregate Water Use Below the General Standard in CFS

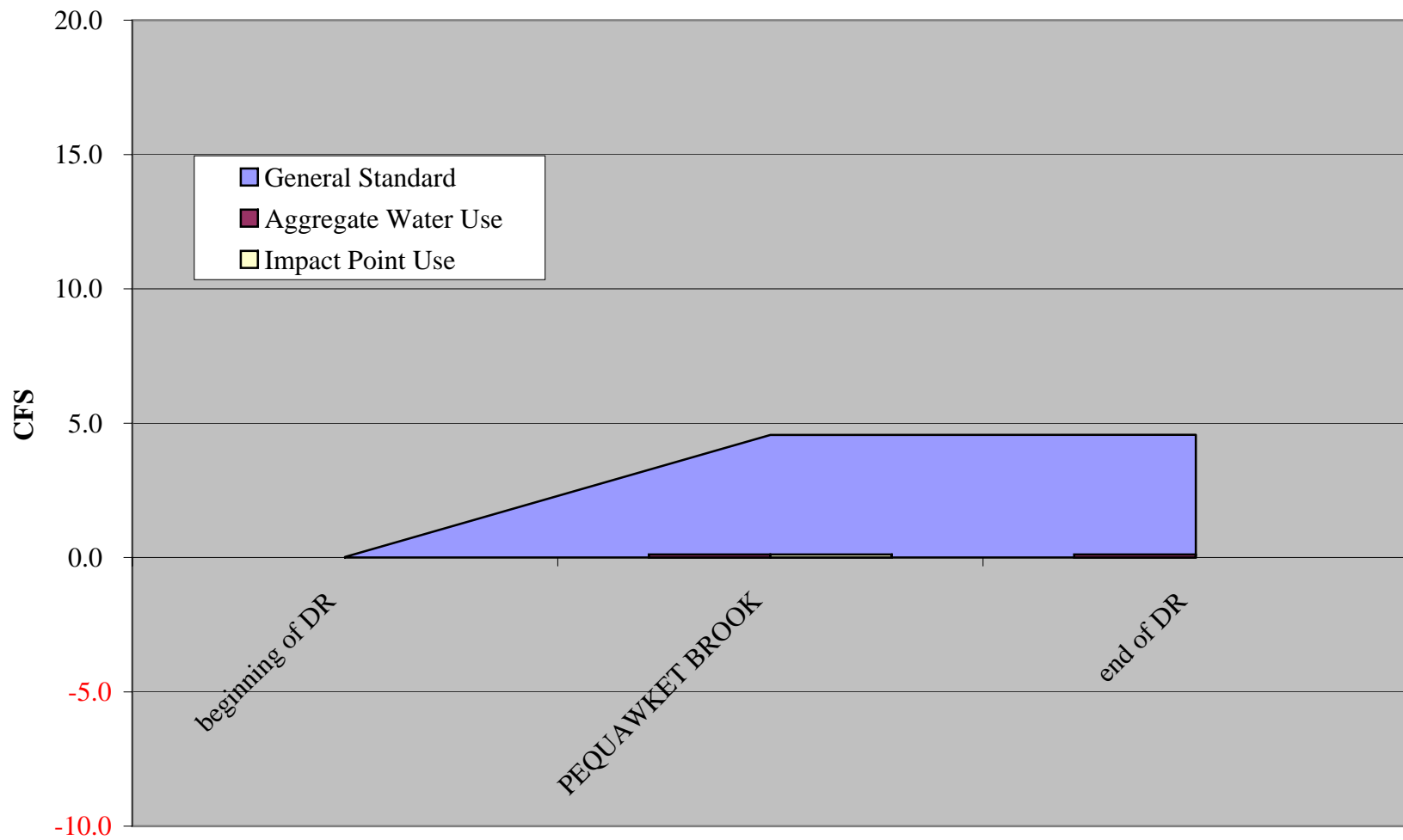
WU_NAME	FACILITY	WUSD_ID	DA on												
			DR (SQ	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
beginning of DR	headwaters		MILE)												
PEQUAWKET BROOK				0.48	0.019	0.019	0.019	0.076	0.019	0.019	0.010	0.019	0.019	0.076	0.076
end of DR	Confluence of Swift and Saco			114.1	4.5	4.5	4.4	18.1	4.4	4.4	1.9	4.2	4.1	17.9	18.2
				114.2	4.5	4.5	4.4	18.1	4.4	4.4	1.9	4.2	4.1	17.9	18.2



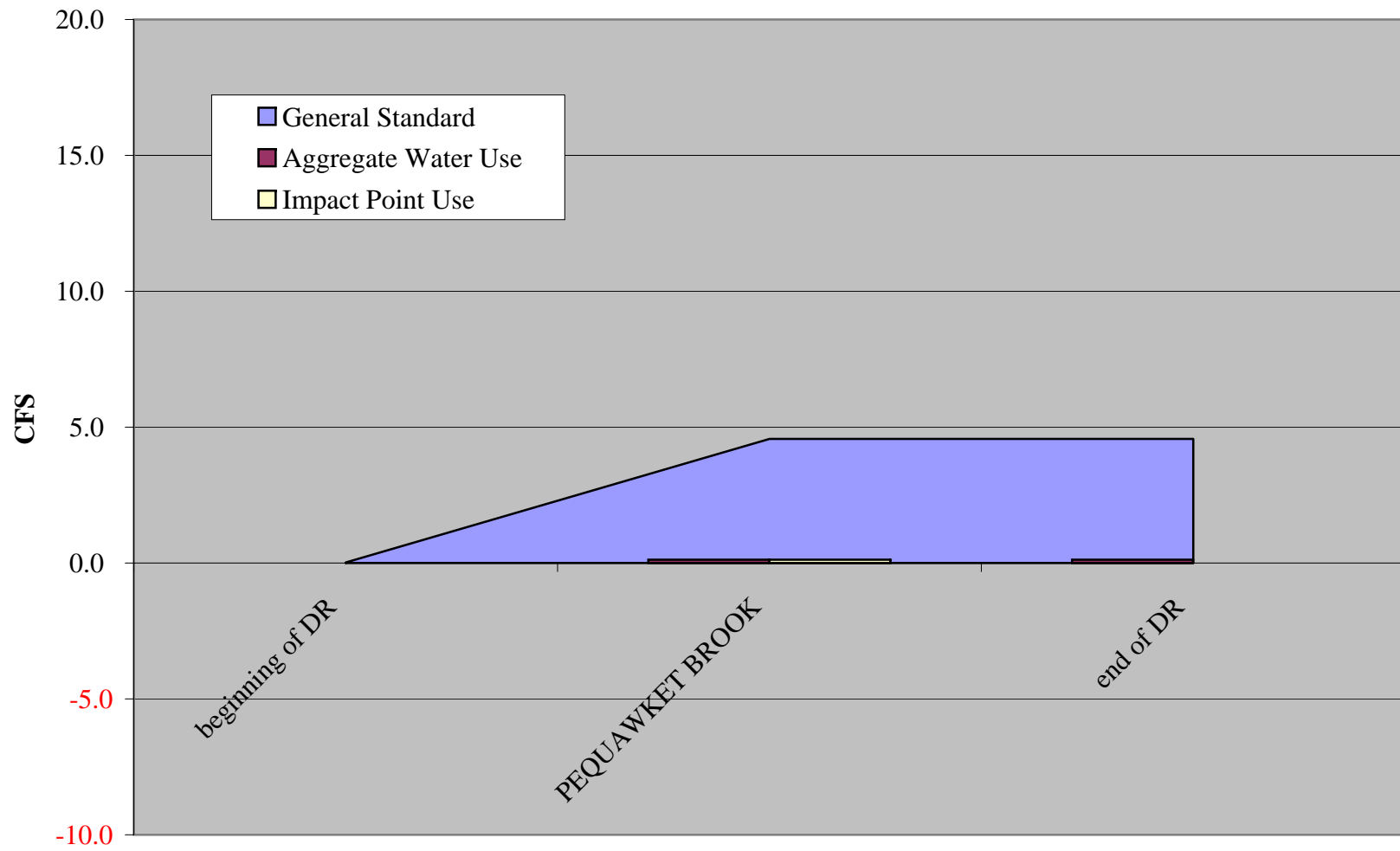
## January 2003 Swift



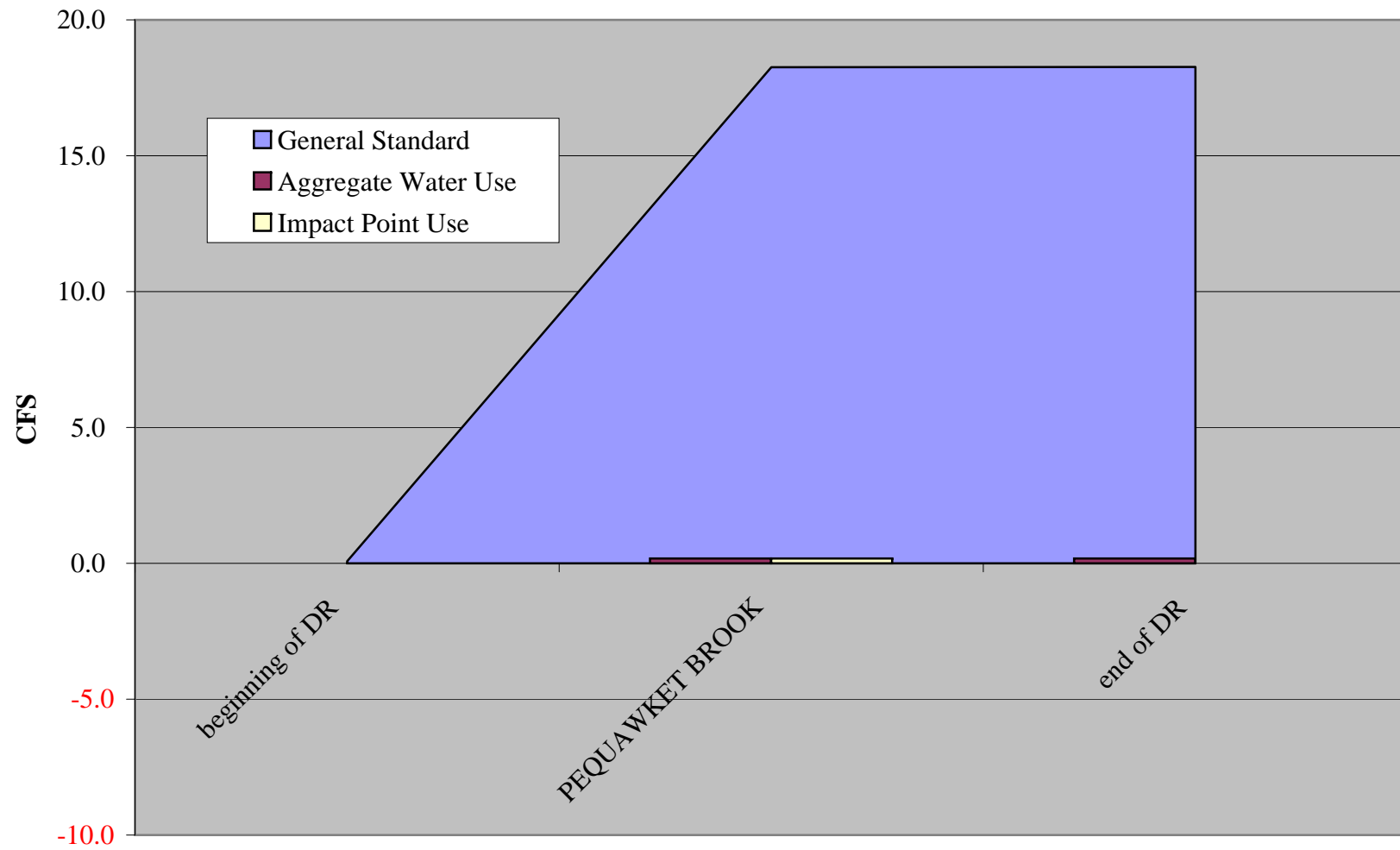
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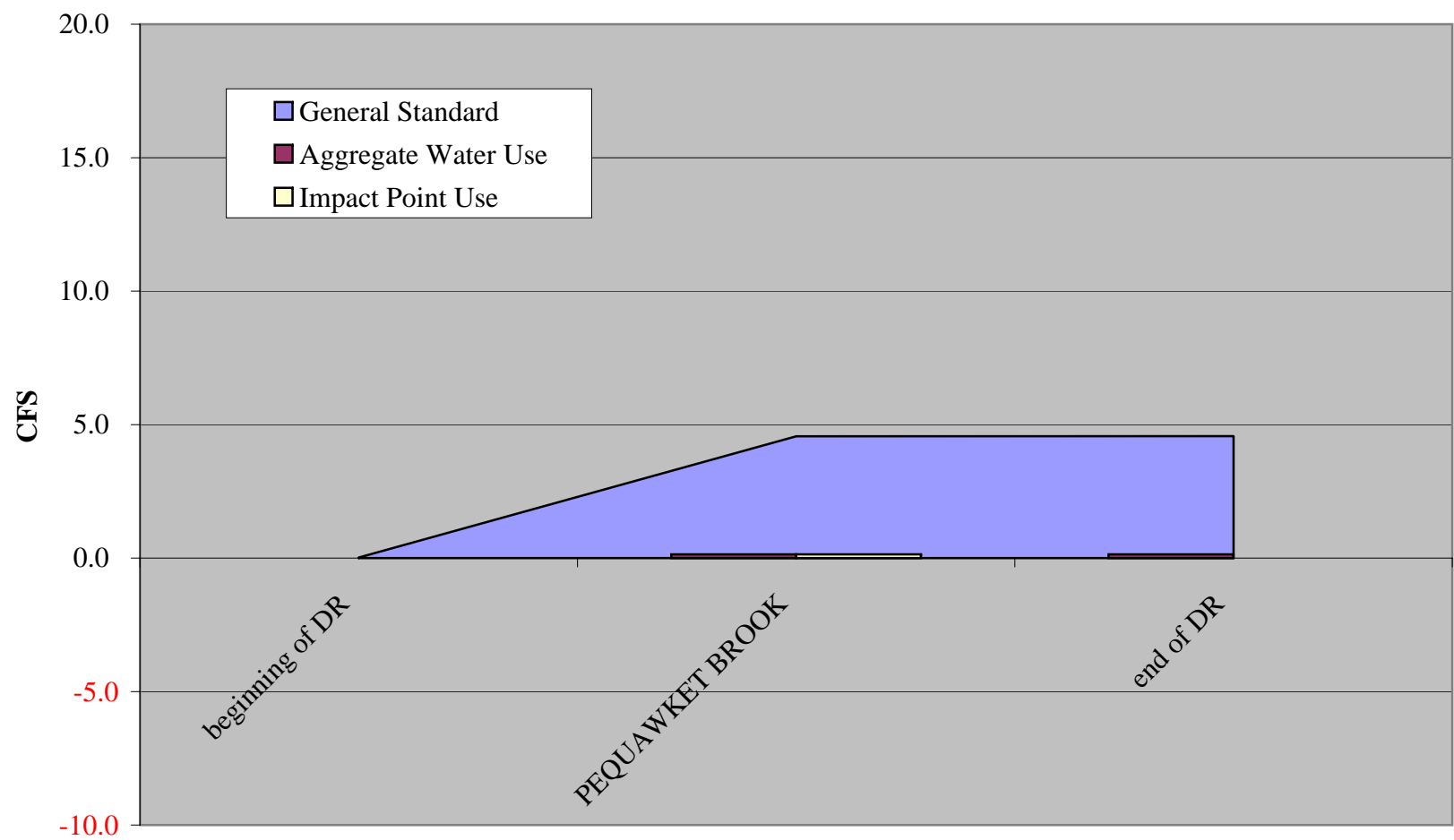
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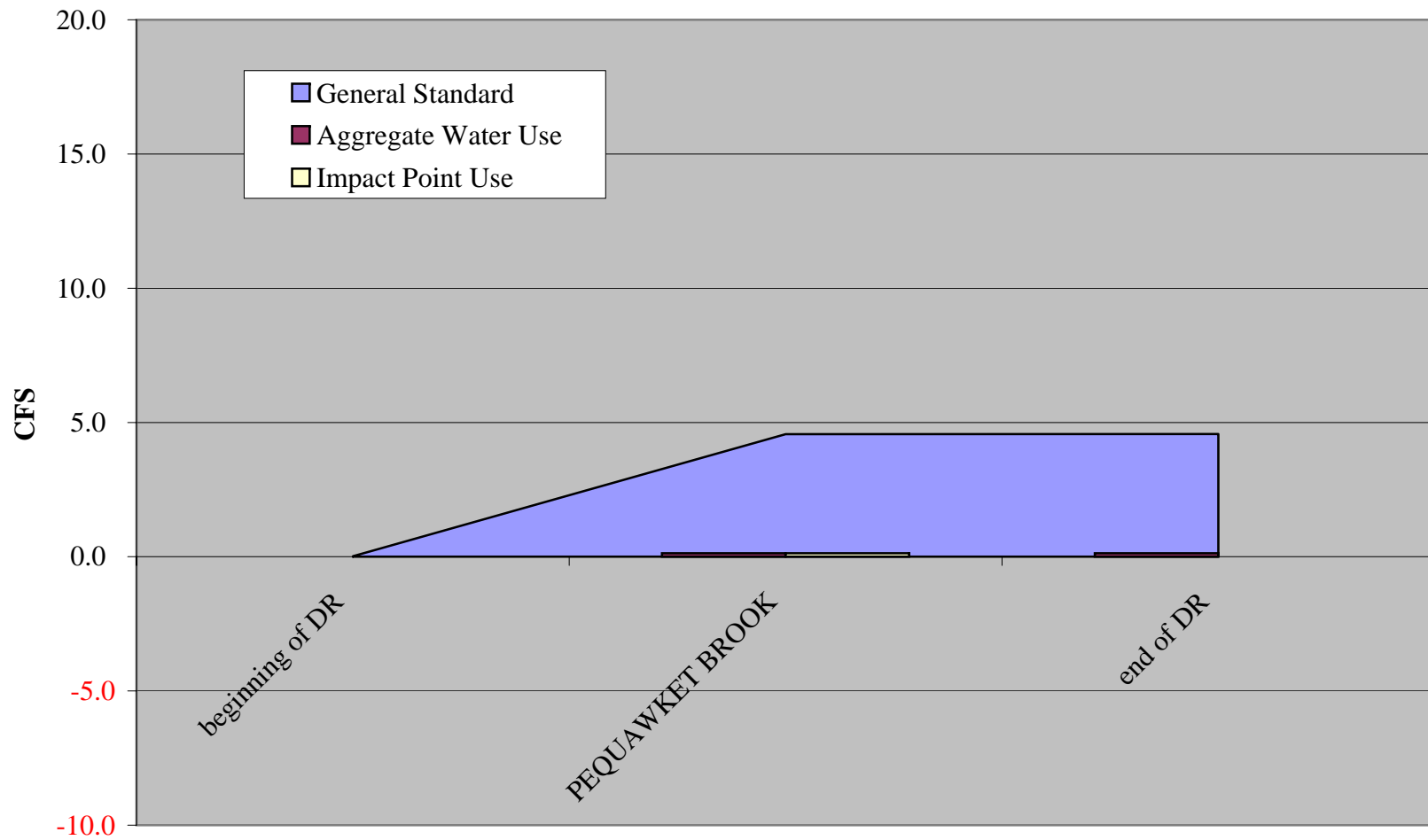
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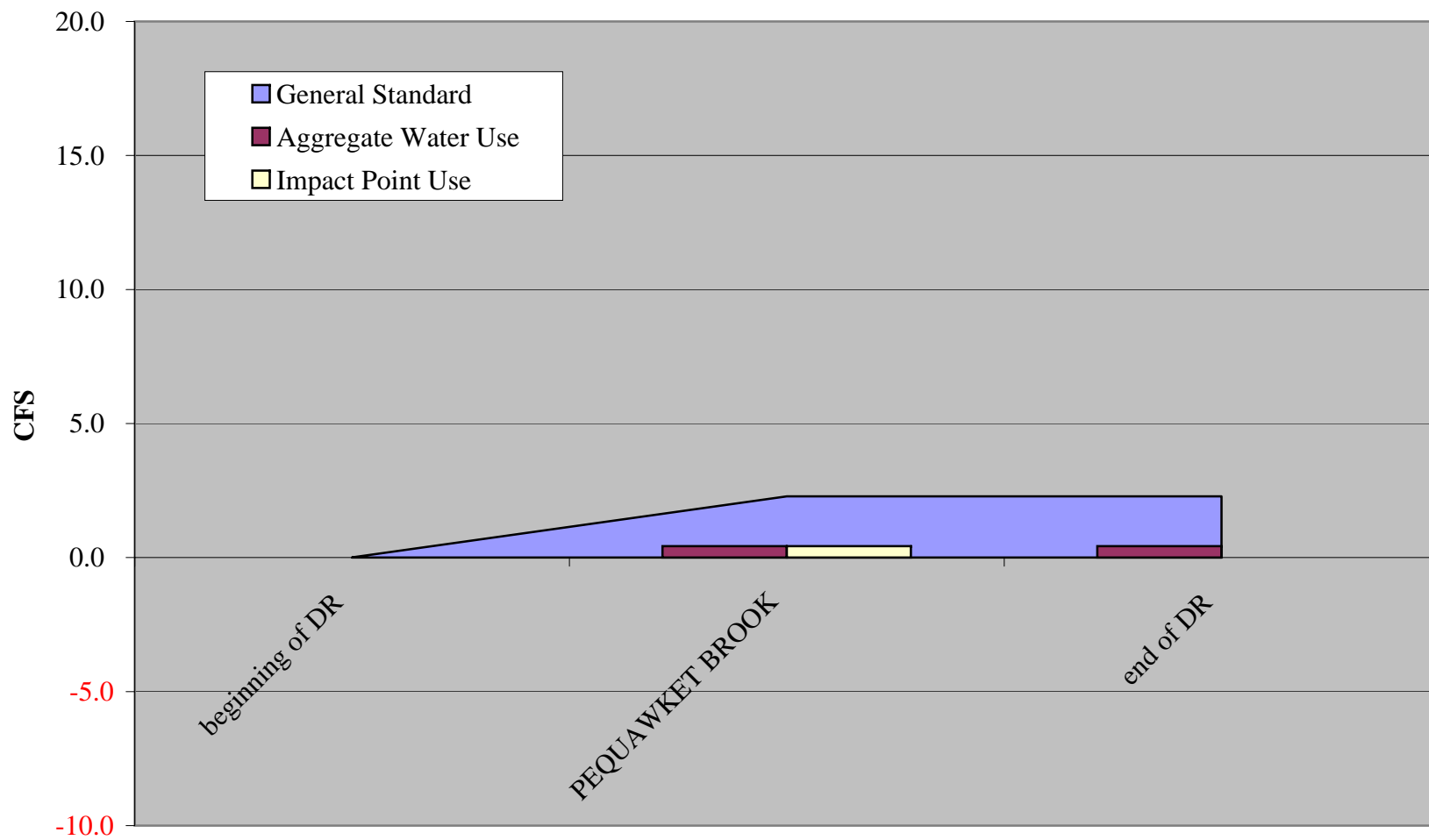
May 2003 Swift



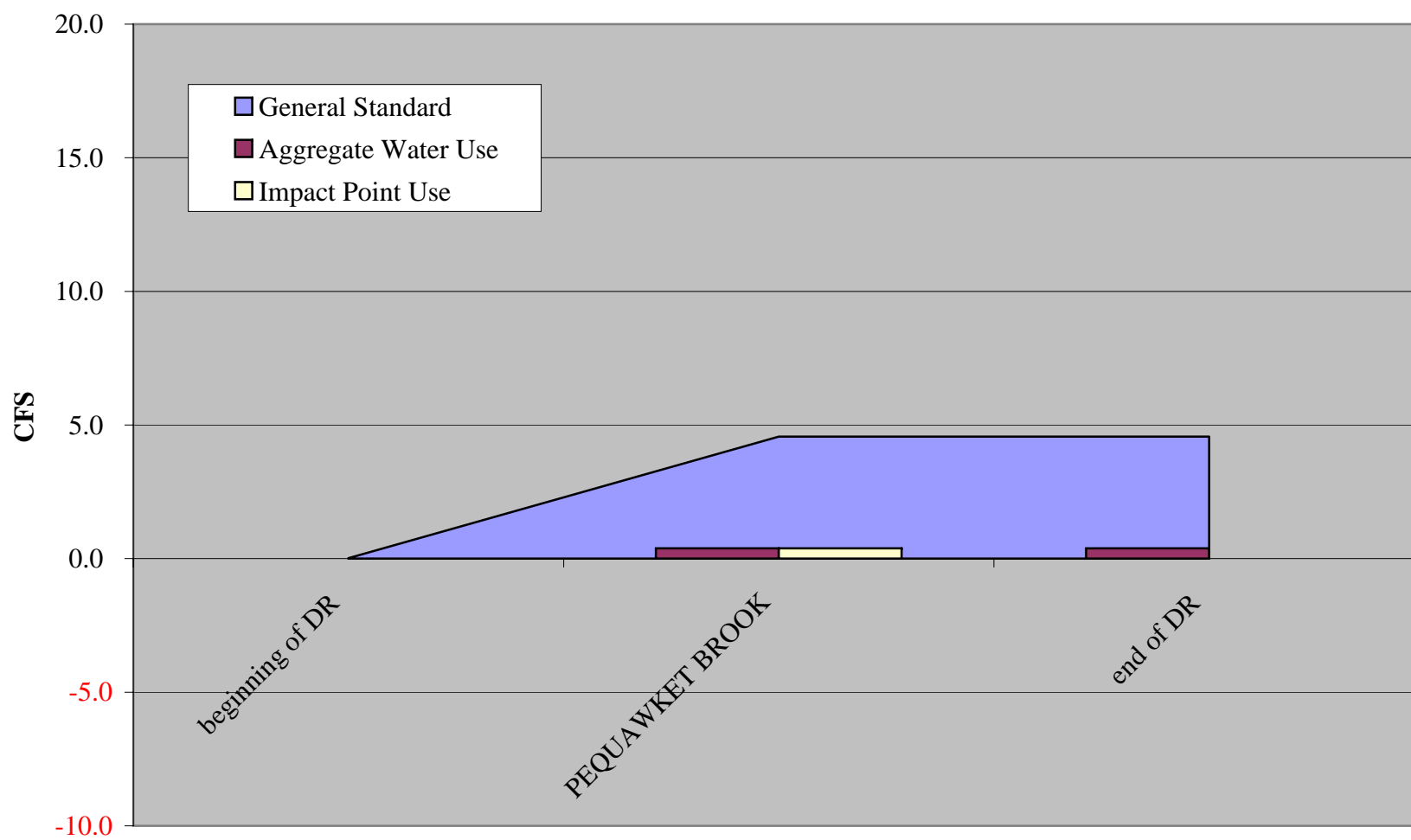
## June 2003 Swift



## July 2003 Swift

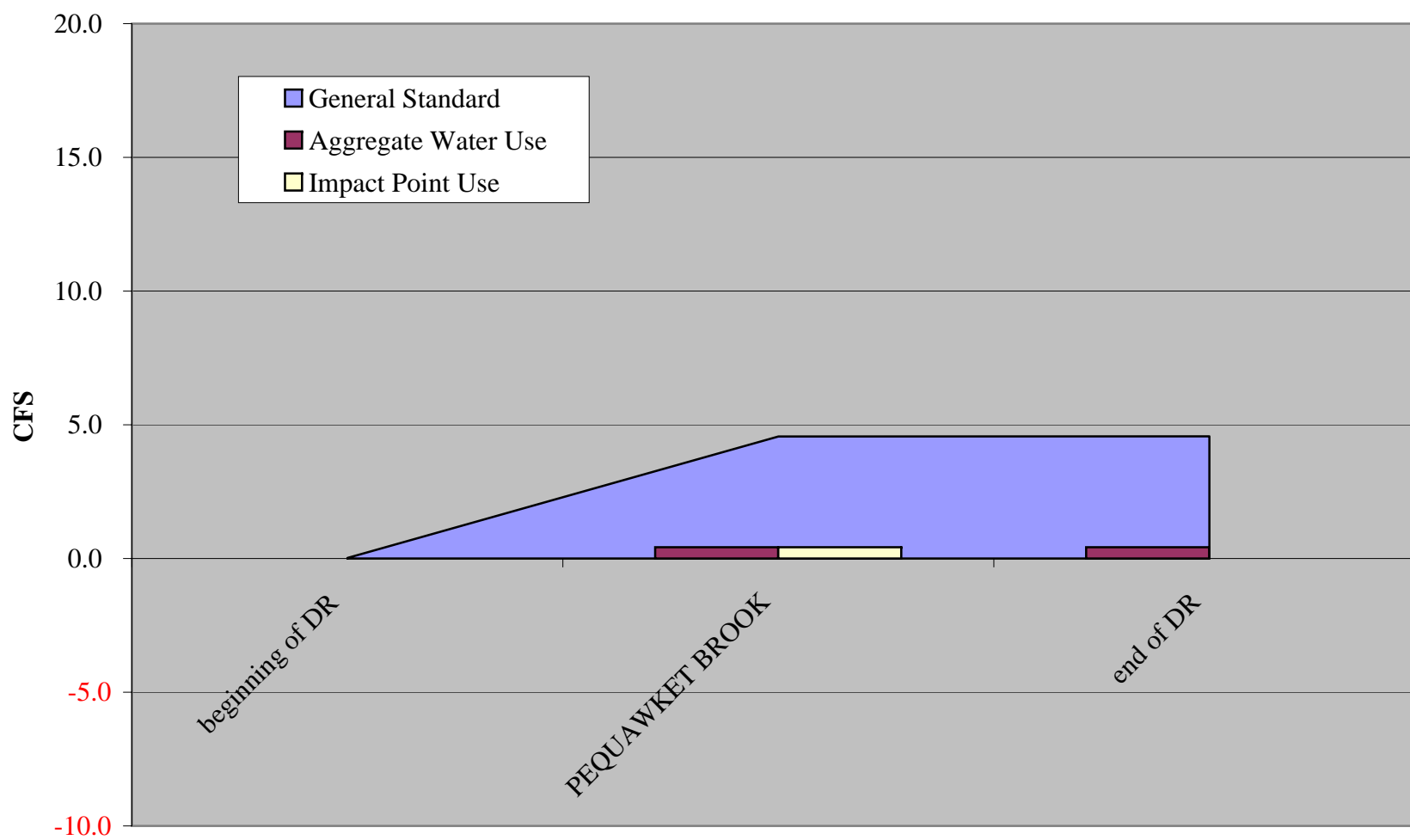


## August 2003 Swift

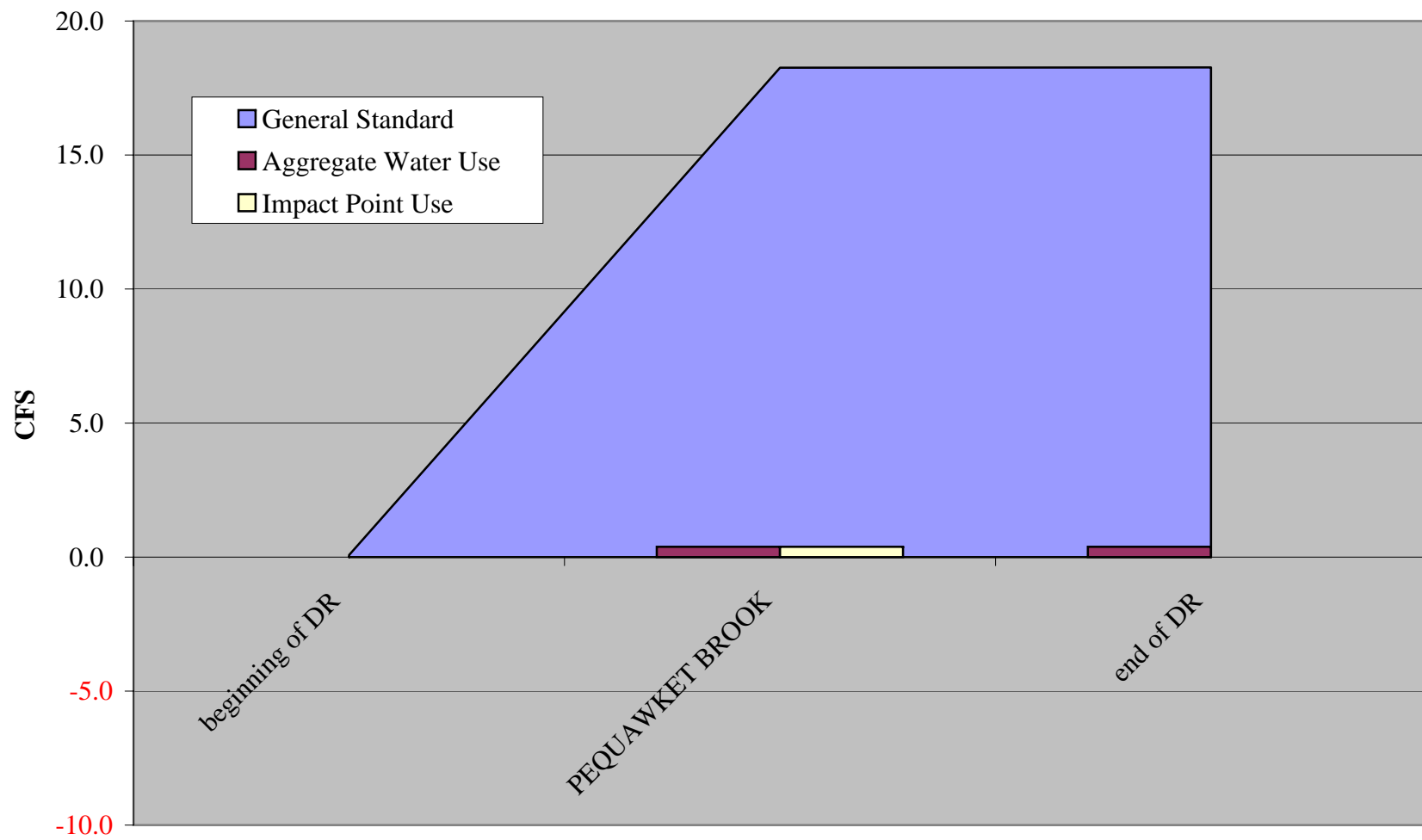




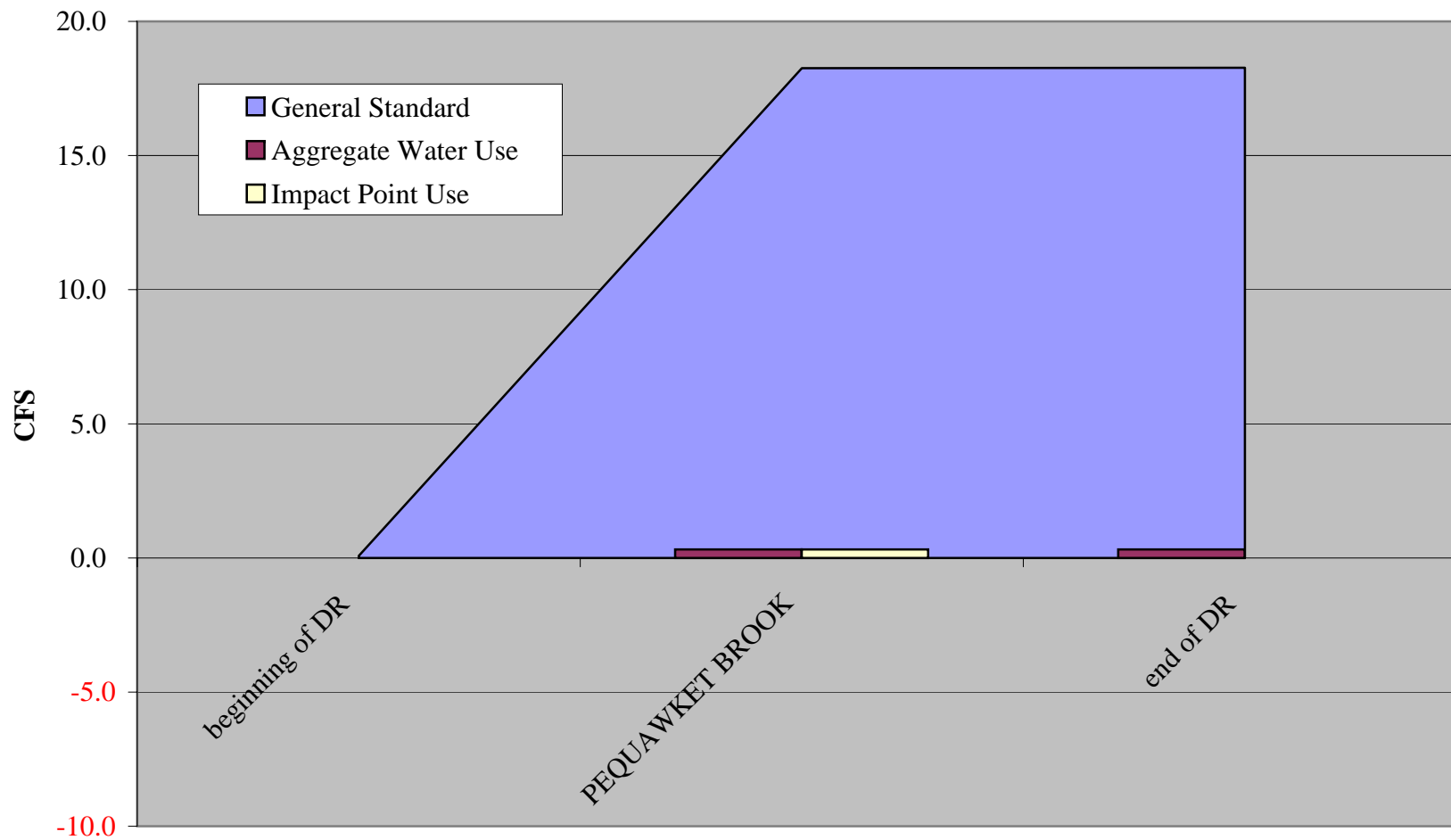
## September 2003 Swift



## October 2003 Swift



## November 2003 Swift



## December 2003 Swift

